

APPARATUS AND METHOD FOR REDUCING POWER CONSUMPTION
IN WIRELESS RF SYSTEMS

ABSTRACT OF THE DISCLOSURE

5 A radio frequency (RF) transceiver having improved low power
operating modes. The RF transceiver comprises: 1) a radio
frequency (RF) modem section comprising: a) receive path
circuitry for receiving and down-converting an incoming RF signal
to thereby produce an incoming baseband signal; and b) transmit
path circuitry for receiving and up-converting an outgoing
baseband signal to thereby produce an outgoing RF signal; 2) a
baseband section comprising baseband circuitry for receiving and
processing the incoming baseband signal and for generating the
outgoing baseband signal; and 3) a power-saving apparatus for
determining that the baseband section is idle and, in response
to the determination, reducing a power supply voltage providing
power to the baseband section.